2. DRUM SECTION

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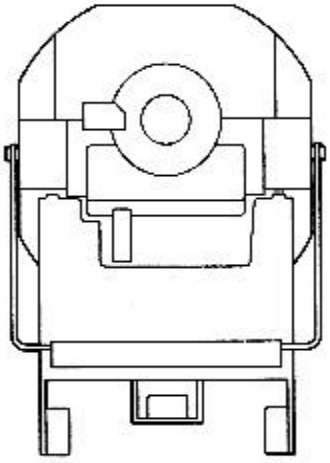
1. THEORY OF OPERATION

1. DRUM INSERTION ERROR PREVENTIVE SYSTEM

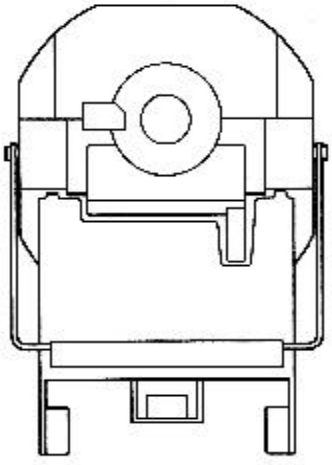
The drum cover (lower) differs in shape so that the GR3770 dedicated drum is not inserted into the GR3750 machine by mistake. On the other hand, GR3750 drum can be inserted into the GR3770, thus enabling common use of the color drum.

GR3770 Drum



GR 3770

GR Drum

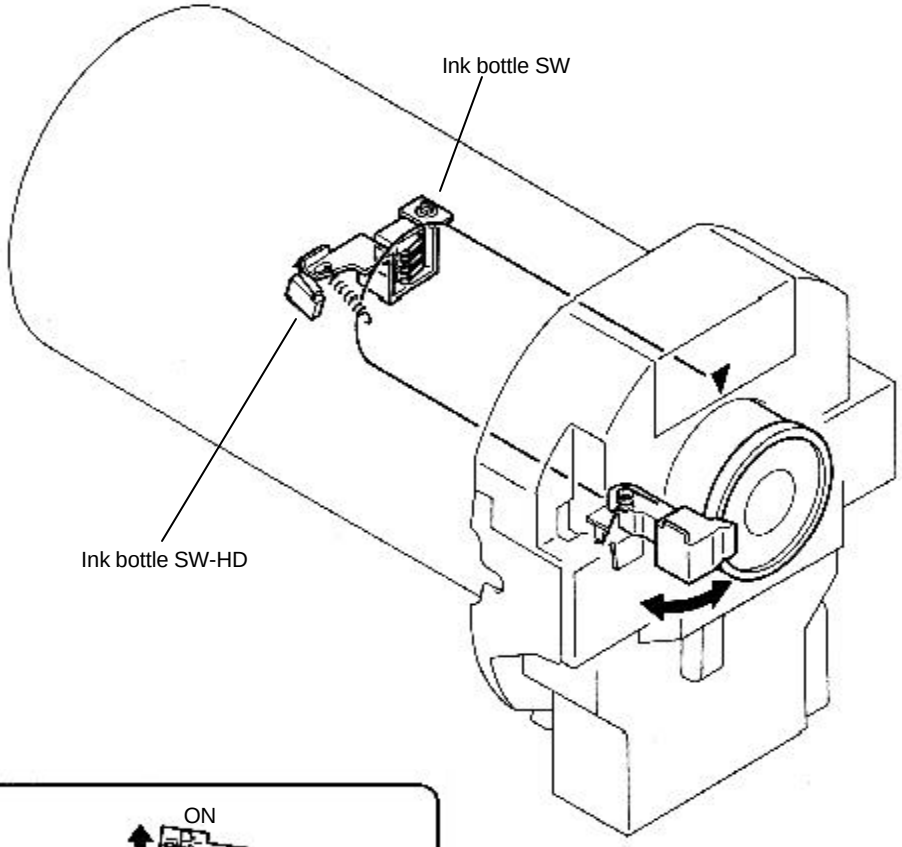


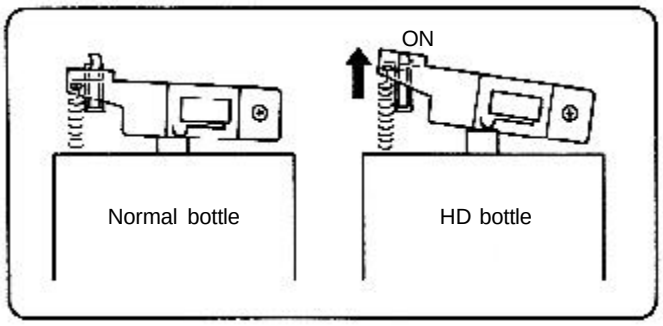
GR Machine

Test Mode No.55 Bottle set SW1
No.56 Bottle set SW2
No.57 Bottle set SW3
No.17 Bottle set SW-HD

2. INK BOTTLE DETECTING SYSTEM

Ink Bottle SWs 1/2/3 as well as Ink Bottle SW-HD detects if an ink bottle appropriate for the drum has been set in position.

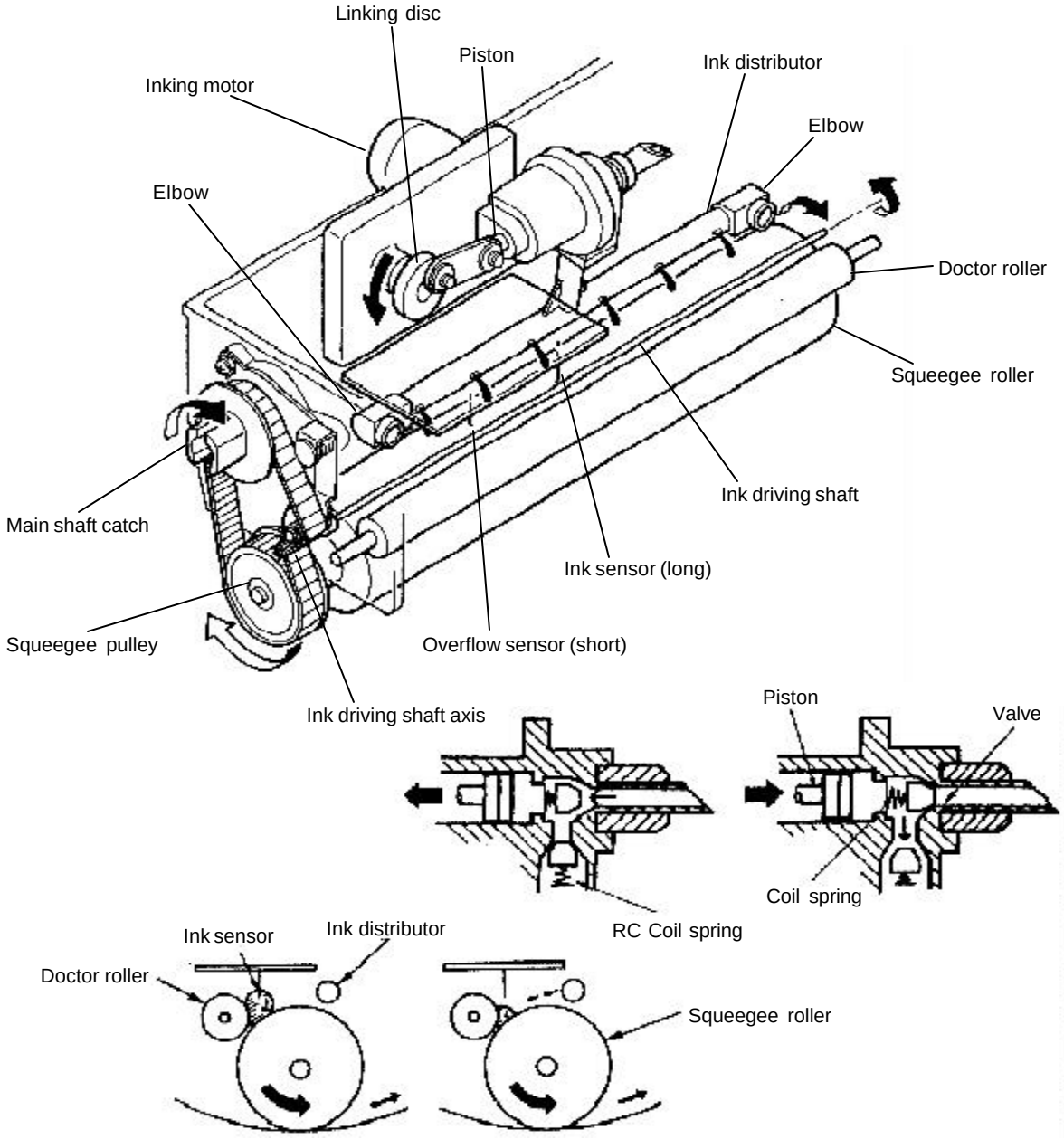


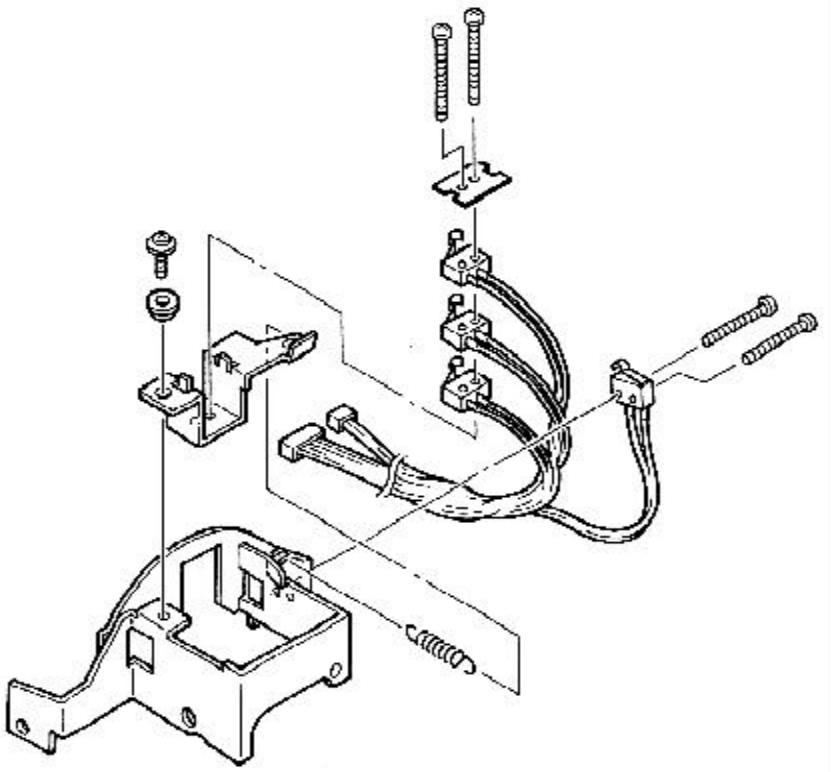
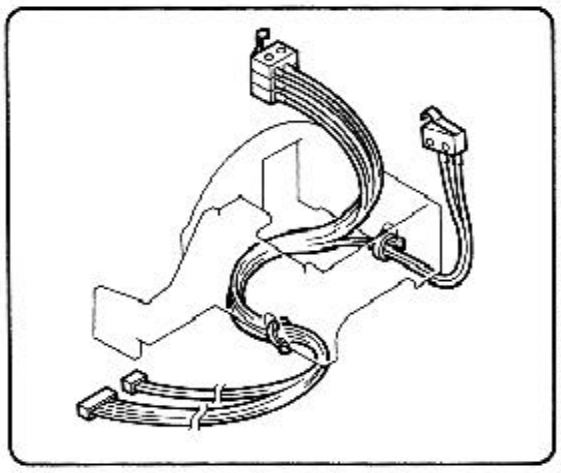


* If Ink Bottle SW has not been pushed, “INSTALL INK CARTRIDGE” message is displayed.
* If Ink Bottle SW has been pushed in wrong combination, “WRONG-TYPE INK CARTRIDGE INSTALLED” message is displayed.

3. INK SUPPLY SYSTEM

As the Main shaft catch rotates, the squeegee roller and the ink driving shaft are turned. There is a slight gap between the squeegee roller and the doctor roller, through which ink, applied on the squeegee roller, is supplied inside the drum. A swirl of ink is produced on the driving shaft and is rotated along with the shaft, where the swirl is maintained in consistent size. As ink is used in printing and the ink swirl gets apart from the ink sensor, the ink motor is turned ON so that ink is sucked from the ink bottle by the ink pump until ink comes in contact with the ink sensor. Further, ink is supplied through the ink distributor on to the squeegee roller.
Ink held by the ink distributor is all supplied to the squeegee from the elbows at both ends of the distributor. Occurrence of overflow of ink in the drum is detected by the overflow sensor.



2. REMOVAL

1. INK BOTTLE SET SW ASSY.